

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



PCT

(43) International Publication Date
4 November 2004 (04.11.2004)

(10) International Publication Number
WO 2004/093807 A3

(51) International Patent Classification⁷: A61K 38/01, 38/02, 38/03, 38/04, 38/05, 38/06, 38/07, 38/08, 38/09, 38/10, 38/12, 38/16, 38/22, 38/24, 38/31, C07K 2/00, 7/00, 7/23, 7/50, 7/64, 14/00, 14/665, 19/00

(21) International Application Number:
PCT/US2004/012200

(22) International Filing Date: 21 April 2004 (21.04.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/464,528 22 April 2003 (22.04.2003) US

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for all designations
- of inventorship (Rule 4.17(iv)) for US only

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:

4 August 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2004/093807 A3

(54) Title: SOMATOSTATIN VECTORS

(57) Abstract: The invention features targeted cytotoxic compounds and methods relating to their therapeutic use for the treatment of neoplasia and other conditions.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/12200

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61K 38/01-38/10,38/12,38/16,38/22,38/24,38/31; C07K 2/00,7/00,7/23,7/50,7/64,14/00,14/665,19/00
 US CL : 514/2,9,16; 530/300,311,317,321,322

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 U.S. : 514/2,9,16; 530/300,311,317,321,322

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
 Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 97/19954 A1 (ASTA MEDICA) 27 November 1995 (27.11.1995), throughout, especially claims and abstract.	1-4,8-11,13,23-25
X	US 5,843,903 (SCHALLY et al) 27 November 1995 (27.11.1995), throughout, especially claims and abstract.	1-4, 8-11,13,23-25
X	FUSELIER, J.A. An adjustable release rate linking strategy for cytotoxin-peptide conjugates. Bioorg. Med. Chem. Letters. 2003, Vol. 13, pages 799-803, especially page 801, table 1.	1-3,5,6,8,23
X	SAFAVY, A. Synthesis and biological evaluation of paclitaxel-c225 conjugate as a model for targeted drug delivery. Bioconj. Chem. 2003, Vol. 14, No. 2., pages 302-310, especially page 304, figure 1.	1,2,5,7
X	HUANG, C.-M. Targeting delivery of paclitaxel into tumor cells via somatostatin receptor endocytosis. Chem. Biol. 2000, Vol. 7, No. 7, pages 453-461, throughout, especially 456, figure 4.	1,2,5,9,10,11,13

<input type="checkbox"/>	Further documents are listed in the continuation of Box C.	<input type="checkbox"/>	See patent family annex.
<p>* Special categories of cited documents:</p> <p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier application or patent published on or after the international filing date</p> <p>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p>			
		"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
		"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
		"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
		"&"	document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
03 May 2005 (03.05.2005)	14 JUN 2005
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230	Authorized officer Andrew D. Kosar Telephone No. (571)272-1600

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/12200

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.: 12 and 19-22
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
Please See Continuation Sheet

3. Claims Nos.: 20-22
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

The additional search fees were accompanied by the applicant's protest.

No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/12200

Continuation of Box II Reason 2:

Claims 12 and 19-22 have not been searched because they rely upon sequences, for which no computer readable sequence listing has been furnished in accordance with rule 13ter. Claims 12 and 19-22 have not been searched because a meaningful search cannot be carried out for the claims (Rule 13ter, 1(c)).

Claims 20-22 are improperly multiply dependent and depend from themselves (e.g., each reciting according to any one of claims 1-24). According to Rule 6.4(a) multiply dependent claims shall not serve as a basis for any other multiple dependent claim.

Continuation of B. FIELDS SEARCHED Item 3:

STN REGISTRY structures cl 15-17; CAPLUS, PUBMED chimera, conjugate, cytotoxic, linker, receptor, ligand, bombesin, anthracycline, paclitaxel, camptothecin, peptide, doxorubicin, lhrh.